

Nuclide Mixtures

in Nucleonica

Z. Soti/J. Magill/R.Dreher

U-235 U-238 50-50 mixture

- U-235 and U-238 isotopes are produced only in the supernova explosion.
- If we suppose that their production happened nearly with same probability.
- How many years ago can we estimate the supernova explosion in what the uranium isotopes were produced?

Help

- Look for the abundance of nuclides today
- Compute the ratio of U-235 to U-238
(0.00725)
- Create a 50-50 mixture
- Show that after the decay time of 5.9×10^9 years,
the U-235 to U-238 ratio is the same as
calculated above

